

SAFETY AND BUILDINGS DIVISION
Plumbing Product Review
P.O. Box 2658
Madison, Wisconsin 53701-2658
TTY: Contact Through Relay

Jim Doyle, Governor Aaron Olver, Secretary

September 8<sup>th</sup>, 2010

HELLENBRAND INC. JASON WAACK 404 MORAVIAN VALLEY RD WAUNAKEE WI 53597

Re: Description: WATER TREATMENT DEVICE- SOFTENER

Manufacturer: HELLENBRAND INC. Product Name: PROMATE (POE)

Model Number(s): H100-24ED, H100-32ED, H100-32-10ED, H100-48ED, H100-64ED, H100-96ED,

H100-128ED, H100-160ED, H125-32-10, H125-48, H125-64, H125-96, H125-128, H125-160, H125-192, PM1-24ED, PM1-32ED, PM1-32-10ED, PM1-48ED, PM1-64ED, PM1-96ED, PM1-128ED, PM1-160ED, PM5-024,

PM5-024RD, PM5-032, PM5-032RD, PM5-032-10, PM5-032-10RD, PM5-048, PM5-

048RD, PM5-064, PM5-064RD, PM5-096, PM5-096RD, PM5-128, PM5-128RD, PM5-160, PM5-160RD, PM5-192, PM5-196RD, PM6-024,

PM6-032, PM6-032-10, PM6-048, PM6-064, PM6-096, PM6-160 AND PM6-192

(POE)

Product File No: 20090235

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters Comm 82 through 84, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of September 2015.

This approval supersedes the approval issued on December 19<sup>th</sup>, 2007 under product file number 20070510.

This approval is contingent upon compliance with the following stipulation(s):

- This product has undergone sufficient testing to document the product's ability to reduce only those contaminants and/or substances as specified in this approval letter when the product is installed and maintained in strict accordance with the manufacturer's published instructions.
- Where the Department of Natural Resources (DNR) has jurisdiction, a written approval may be required prior to installation of this product in a water supply system to reduce the concentration of a contaminant that exceeds the primary drinking water standards contained in ch. NR 809, Wis. Admin. Code, the enforcement standards contained in ch. NR 140, Wis. Admin. Code, or for a water supply system that is subject to a written advisory opinion by the DNR. For more information contact the DNR Section of Private Water Systems, P.O. Box 7921, Madison, WI 53707, telephone (608) 267-9787.
- If these approved devices are modified or additional assertions of function or performance are made, then this approval shall be considered null and void, unless the change is submitted to the department for review and the approval is reaffirmed.
- These cation exchange water softeners shall be sized, installed, programmed and maintained such that wastewater volumes, total dissolved solids and chloride discharges are minimized.

Based on testing data submitted to and reviewed by the department, this approval recognizes that these plumbing products will reduce the concentration of contaminants as specified on pages 1 through 3 of this letter.

SBD-10564-E (N.10/97) File Ref: 09023501.DOC

Hellenbrand Incorporated September 8<sup>th</sup>, 2010 Page 2 of 3

Product File No.: 20090235

## WATER SOFTENING CAPABILITIES PRODUCT FILE NUMBER 20090235 TABLE 1 OF 1

| Model Numbers        | Tested Capacities* |        |         |                   |         |        |          |        | Flow Rate vs. |
|----------------------|--------------------|--------|---------|-------------------|---------|--------|----------|--------|---------------|
| ProMate Series       | Rati               | ing 1  | Rati    | Rating 2 Rating 3 |         |        | Rating 4 |        | pressure loss |
| Demand Initiated     | Grains             | Pounds | Grains  | Pounds            | Grains  | Pounds | Grains   | Pounds | gpm @ psig    |
| Regeneration         |                    |        |         |                   |         |        |          |        |               |
| H-100-24ED           | 17,200             | 4.5    | 19,980  | 6.0               | 21,040  | 7.5    | 24,230   | 11.3   | 9.8 @ 10.0    |
| H-100-32ED           | 22,930             | 6.0    | 26,650  | 8.0               | 28,060  | 10.0   | 32,310   | 15.0   | 10.1 @ 10.0   |
| H-100-32-10ED        | 22,930             | 6.0    | 26,650  | 8.0               | 28,060  | 10.0   | 32,310   | 15.0   | 11.3 @ 10.0   |
| H-100-48ED           | 34,400             | 9.0    | 39,970  | 12.0              | 42,090  | 15.0   | 48,460   | 22.5   | 10.5 @ 10.0   |
| H-100-64ED           | 45,870             | 12.0   | 53,300  | 16.0              | 56,120  | 20.0   | 64,620   | 30.0   | 14.2 @ 10.0   |
| H-100-96ED           | 68,810             | 18.0   | 79,950  | 24.0              | 84,180  | 30.0   | 96,930   | 45.0   | 14.4 @ 10.0   |
| H-100-128ED          | 91,750             | 24.0   | 106,600 | 32.0              | 112,240 | 40.0   | 129,240  | 60.0   | 15.1 @ 10.0   |
| H-100-160ED          | 114,690            | 30.0   | 133,250 | 40.0              | 140,300 | 50.0   | 161,550  | 75.0   | 17.3 @ 10.0   |
| H125-32-10           | 19,000             | 6.0    | 28,000  | 10.0              | 32,000  | 15.0   | -        | -      | 22.0 @ 15.0   |
| H125-48              | 28,500             | 9.0    | 42.000  | 15.0              | 48,000  | 22.5   | -        | _      | 19.0 @ 15.0   |
| H125-64              | 38,000             | 12.0   | 56,000  | 20.0              | 64,000  | 30.0   | -        | _      | 25.0 @ 15.0   |
| H125-96              | 57,000             | 18.0   | 84,000  | 30.0              | 96,000  | 45.0   | _        | _      | 24.0 @ 15.0   |
| H125-128             | 76,000             | 24.0   | 112,000 | 40.0              | 128,000 | 60.0   | _        | -      | 25.0 @ 15.0   |
| H125-160             | 95,000             | 30.0   | 140,000 | 50.0              | 160,000 | 75.0   | -        | _      | 27.0 @ 15.0   |
| H125-192             | 114,000            | 36.0   | 168,000 | 60.0              | 192,000 | 90.0   | _        | -      | 26.0 @ 15.0   |
| PM1-24ED             | 17,200             | 4.5    | 19,980  | 6.0               | 21,040  | 7.5    | 24,230   | 11.3   | 9.8 @ 10.0    |
| PM1-32ED             | 22,930             | 6.0    | 26,650  | 8.0               | 28.060  | 10.0   | 32,310   | 15.0   | 10.1 @ 10.0   |
| PM1-32-10ED          | 22,930             | 6.0    | 26,650  | 8.0               | 28,060  | 10.0   | 32,310   | 15.0   | 11.3 @ 10.0   |
| PM1-48ED             | 34,400             | 9.0    | 39,970  | 12.0              | 42,090  | 15.0   | 48,460   | 22.5   | 10.5 @ 10.0   |
| PM1-64ED             | 45,870             | 12.0   | 53,300  | 16.0              | 56,120  | 20.0   | 64,620   | 30.0   | 14.2 @ 10.0   |
| PM1-96ED             | 68,810             | 18.0   | 79,950  | 24.0              | 84,180  | 30.0   | 96,930   | 45.0   | 14.4 @ 10.0   |
| PM1-128ED            | 91,750             | 24.0   | 106,600 | 32.0              | 112,240 | 40.0   | 129,240  | 60.0   | 15.1 @ 10.0   |
|                      |                    | 30.0   |         | 40.0              | 140.300 | 50.0   |          | 75.0   |               |
| PM1-160ED<br>PM5-024 | 114,690            |        | 133,250 |                   | 21.040  |        | 161,550  |        | 17.3 @ 10.0   |
|                      | 17,200             | 4.5    | 19,980  | 6.0               | 21,040  | 7.5    | 24,230   | 11.3   | 9.8 @ 10.0    |
| PM5-024RD            | 17,200             | 4.5    | 19,980  | 6.0               |         | 7.5    | 24,230   | 11.3   | 9.8 @ 10.0    |
| PM5-032              | 22,930             | 6.0    | 26,650  | 8.0               | 28,060  | 10.0   | 32,310   | 15.0   | 10.1 @ 10.0   |
| PM5-032RD            | 22,930             | 6.0    | 26,650  | 8.0               | 28,060  | 10.0   | 32,310   | 15.0   | 10.1 @ 10.0   |
| PM5-032-10           | 22,930             | 6.0    | 26,650  | 8.0               | 28,060  | 10.0   | 32,310   | 15.0   | 10.1 @ 10.0   |
| PM5-032-10RD         | 22,930             | 6.0    | 26,650  | 8.0               | 28,060  | 10.0   | 32,310   | 15.0   | 10.1 @ 10.0   |
| PM5-048              | 34,400             | 9.0    | 39,970  | 12.0              | 42,090  | 15.0   | 48,460   | 22.5   | 10.5 @ 10.0   |
| PM5-048RD            | 34,400             | 9.0    | 39,970  | 12.0              | 42,090  | 15.0   | 48,460   | 22.5   | 10.5 @ 10.0   |
| PM5-064              | 45,870             | 12.0   | 53,300  | 16.0              | 56,120  | 20.0   | 64,620   | 30.0   | 14.2 @ 10.0   |
| PM5-064RD            | 45,870             | 12.0   | 53,300  | 16.0              | 56,120  | 20.0   | 64,620   | 30.0   | 14.2 @ 10.0   |
| PM5-096              | 68,810             | 18.0   | 79,950  | 24.0              | 84,180  | 30.0   | 96,930   | 45.0   | 14.4 @ 10.0   |
| PM5-096RD            | 68,810             | 18.0   | 79,950  | 24.0              | 84,180  | 30.0   | 96,930   | 45.0   | 14.4 @ 10.0   |
| PM5-128              | 91,750             | 24.0   | 106,600 | 32.0              | 112,240 | 40.0   | 129,240  | 60.0   | 15.1 @ 10.0   |
| PM5-128RD            | 91,750             | 24.0   | 106,600 | 32.0              | 112,240 | 40.0   | 129,240  | 60.0   | 15.1 @ 10.0   |
| PM5-160              | 114,690            | 30.0   | 133,250 | 40.0              | 140,300 | 50.0   | 161,550  | 75.0   | 17.3 @ 10.0   |
| PM5-160RD            | 114,690            | 30.0   | 133,250 | 40.0              | 140,300 | 50.0   | 161,550  | 75.0   | 17.3 @ 10.0   |
| PM5-192              | 137,620            | 36.0   | 159,900 | 48.0              | 168,360 | 60.0   | 193,860  | 90.0   | 17.8 @ 10.0   |
| PM5-192RD            | 137,620            | 36.0   | 159,900 | 48.0              | 168,360 | 60.0   | 193,860  | 90.0   | 17.8 @ 10.0   |
| PM6-024              | 17,200             | 4.5    | 19,980  | 6.0               | 21,040  | 7.5    | 24,230   | 11.3   | 9.8 @ 10.0    |
| PM6-032              | 22,930             | 6.0    | 26,650  | 8.0               | 28,060  | 10.0   | 32,310   | 15.0   | 10.1 @ 10.0   |
| PM6-032-10           | 22,930             | 6.0    | 26,650  | 8.0               | 28,060  | 10.0   | 32,310   | 15.0   | 10.1 @ 10.0   |
| PM6-048              | 34,400             | 9.0    | 39,970  | 12.0              | 42,090  | 15.0   | 48,460   | 22.5   | 10.5 @ 10.0   |
| PM6-064              | 45,870             | 12.0   | 53,300  | 16.0              | 56,120  | 20.0   | 64,620   | 30.0   | 14.2 @ 10.0   |
| PM6-096              | 68,810             | 18.0   | 79,950  | 24.0              | 84,180  | 30.0   | 96,930   | 45.0   | 14.4 @ 10.0   |
| PM6-128              | 91,750             | 24.0   | 106,600 | 32.0              | 112,240 | 40.0   | 129,240  | 60.0   | 15.1 @ 10.0   |
| PM6-160              | 114,690            | 30.0   | 133,250 | 40.0              | 140,300 | 50.0   | 161,550  | 75.0   | 17.3 @ 10.0   |
| PM6-192              | 137,620            | 36.0   | 159,900 | 48.0              | 168,360 | 60.0   | 193,860  | 90.0   | 17.8 @ 10.0   |

<sup>\*</sup> The softener capacity rating is based on grains of hardness, due to calcium and magnesium cations, removed (as calcium carbonate) while producing soft water between successive regenerations and is related to the pounds of salt required for each regeneration. The tests run to generate the data for table 1 were conducted in accordance with NSF Standard 44.

Hellenbrand Incorporated September 8<sup>th</sup>, 2010 Page 3 of 3

Product File No.: 20090235

This device was tested under controlled laboratory, or field, conditions. The actual performance of this device for a specific end use installation will vary from the tested conditions based on local factors such as water pressure, water temperature and water chemistry.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

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Safety and Buildings Division
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